

FIG. 1

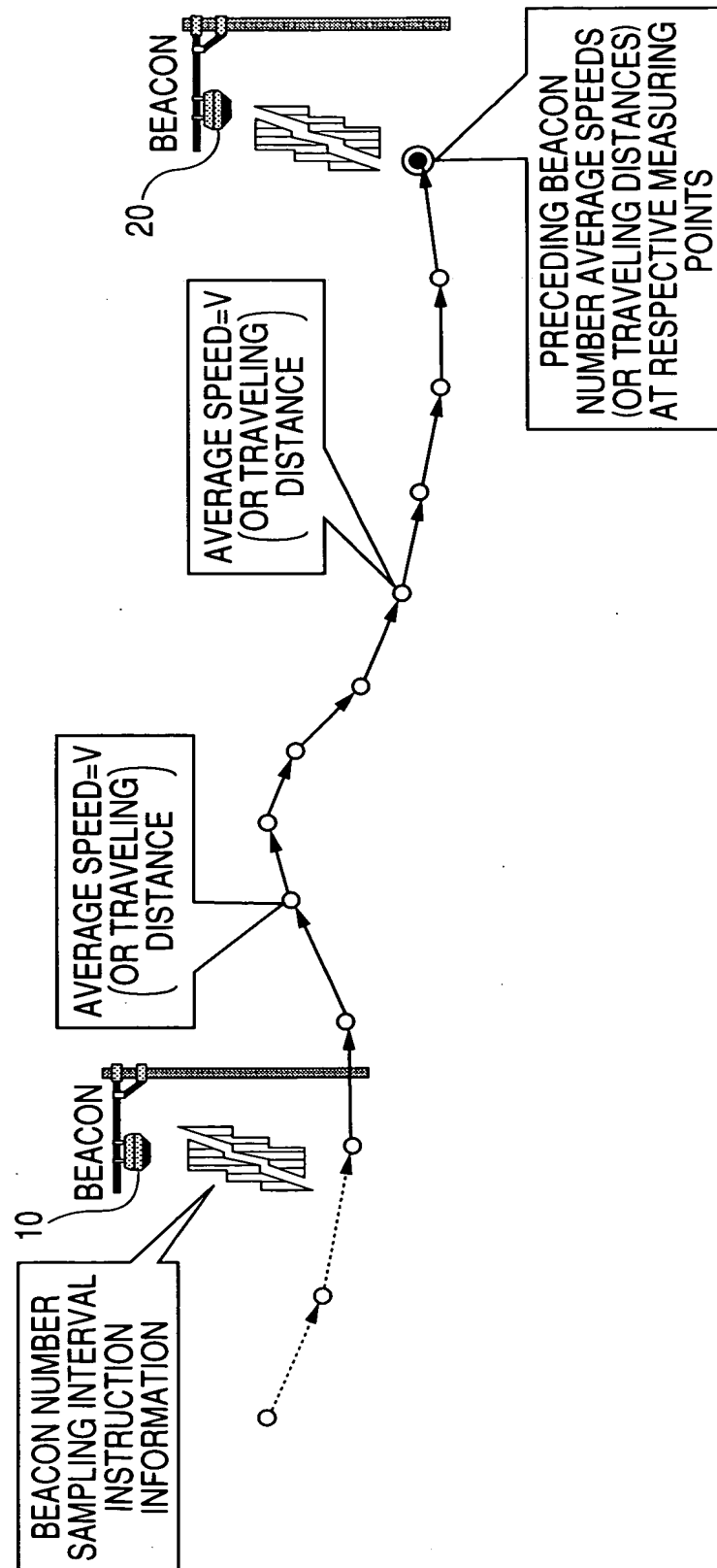


FIG. 2A

BEACON→FCD TRANSMISSION DATA FORMAT EXAMPLE (UPSTREAM SIDE)	
BEACON NUMBER	
SAMPLING DISTANCE INTERVAL OF SPEED (=150m)	

FIG. 2B

FCD→CENTER EQUIPMENT TRANSMISSION DATA FORMAT EXAMPLE (DOWNSTREAM SIDE)
NUMBER OF THE LAST-PASSED BEACON
TRAVELING DISTANCE FROM THE LAST-PASSED BEACON
SAMPLING DISTANCE INTERVAL OF SPEED (150m)
OFFSET DISTANCE BETWEEN THE FINAL MEASURING POINT AND THE BEACON UP POINT
NUMBER (N) OF SAMPLING POINTS OF SPEED INFORMATION
MEASURING POINTS 1 TO 2 AVERAGE SPEED
MEASURING POINTS 2 TO 3 AVERAGE SPEED
⋮
MEASURING POINTS N-1 TO N AVERAGE SPEED

FIG. 3

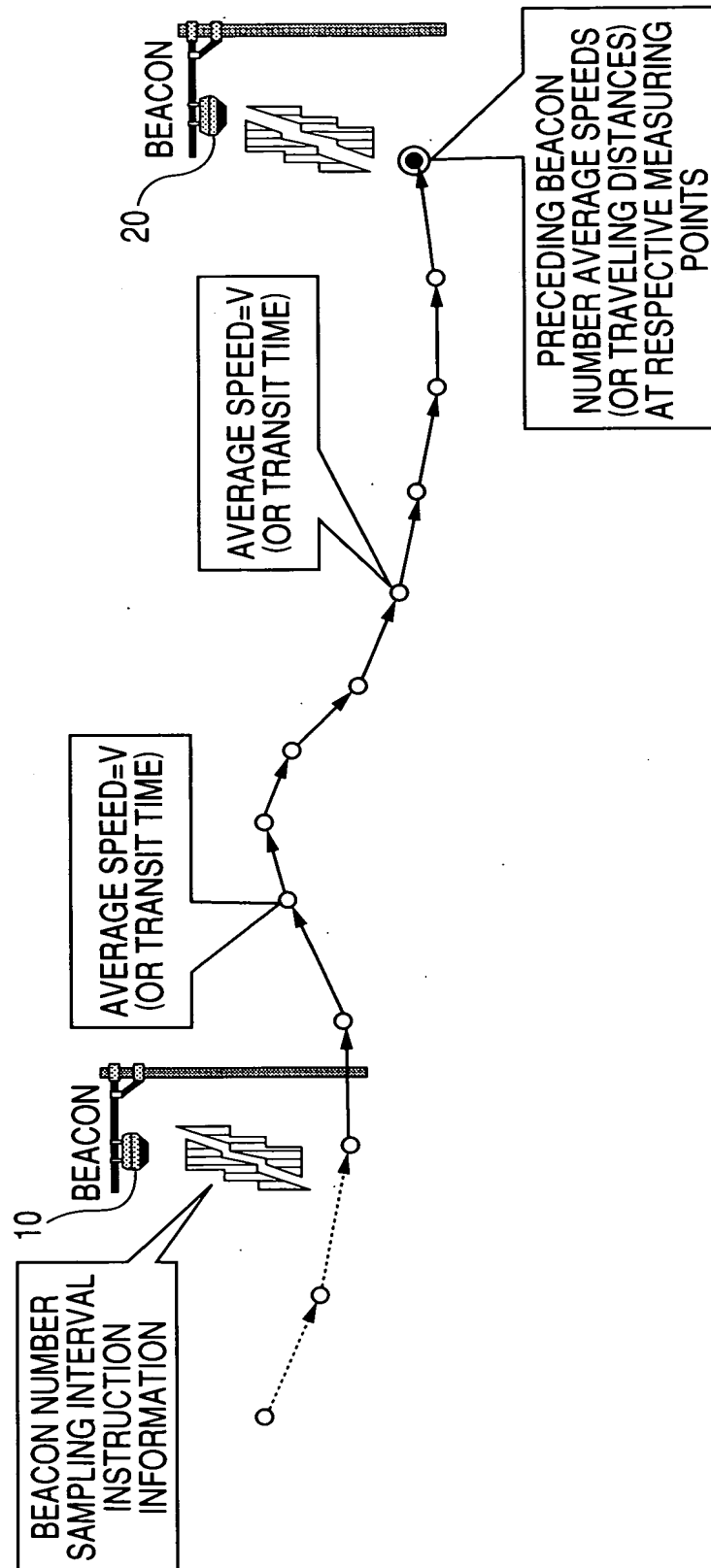


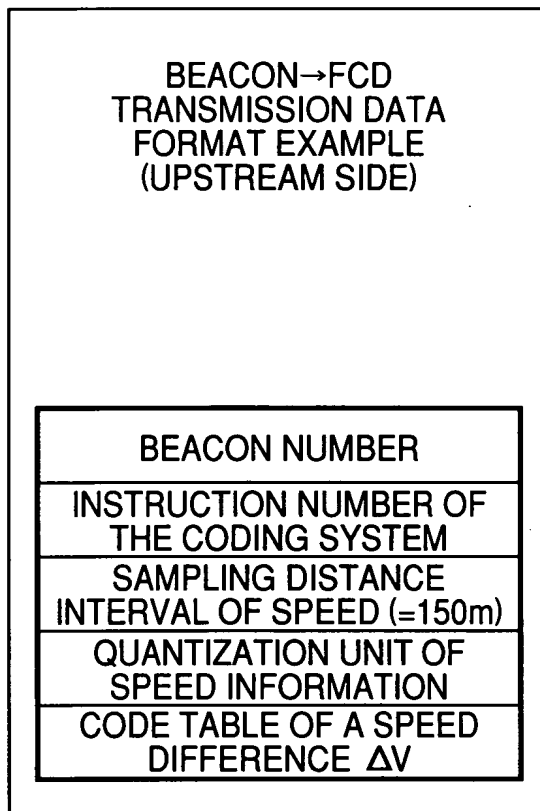
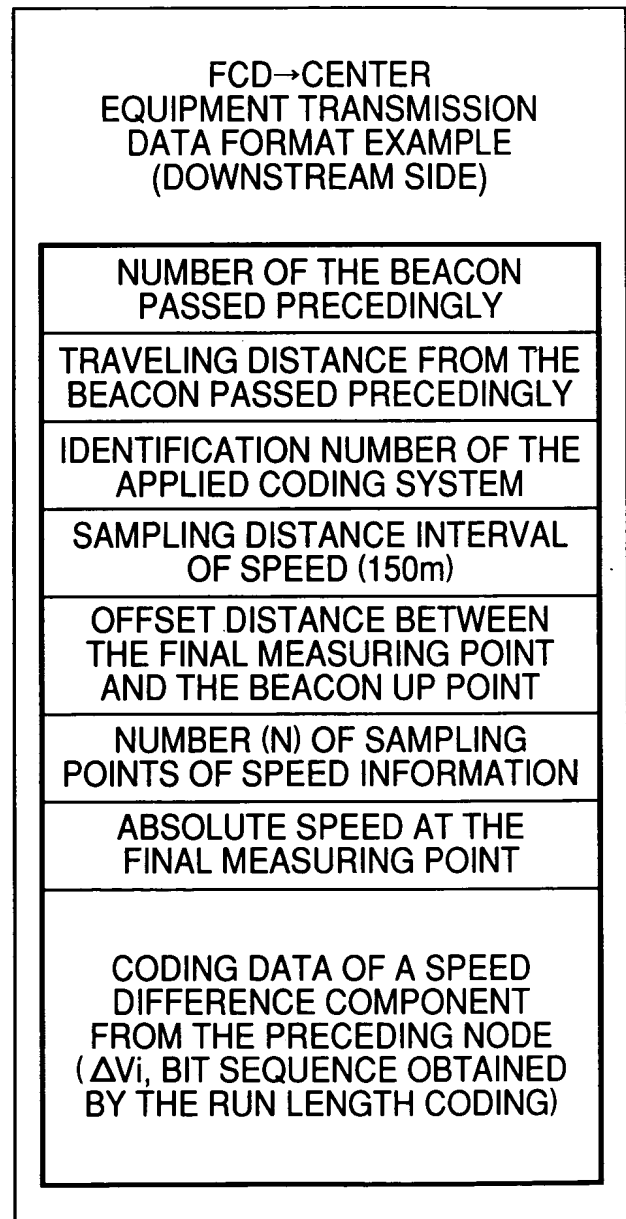
FIG. 4A*FIG. 4B*

FIG. 5

CONFIGURATIVE EXAMPLE OF THE SYSTEM

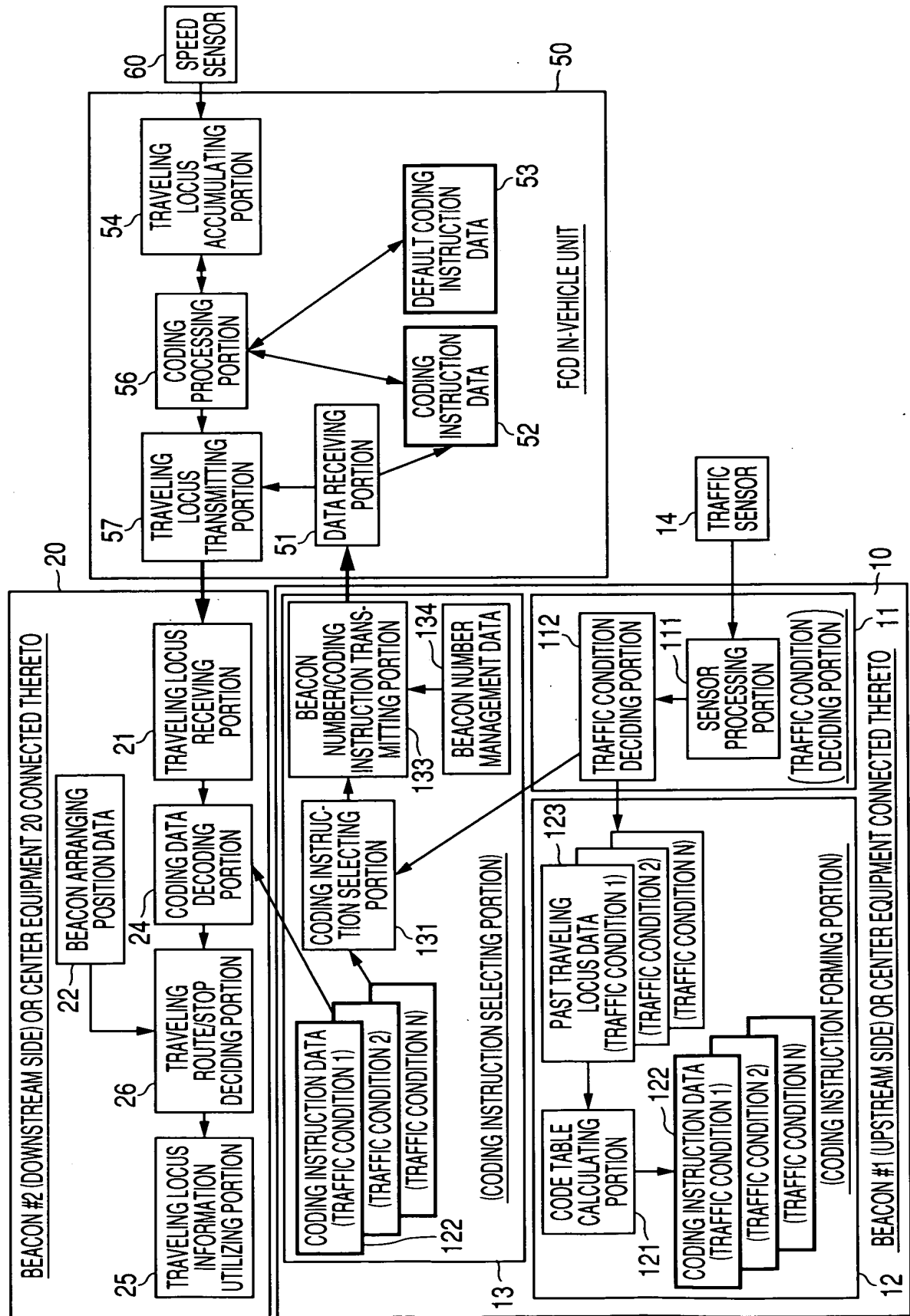


FIG. 6

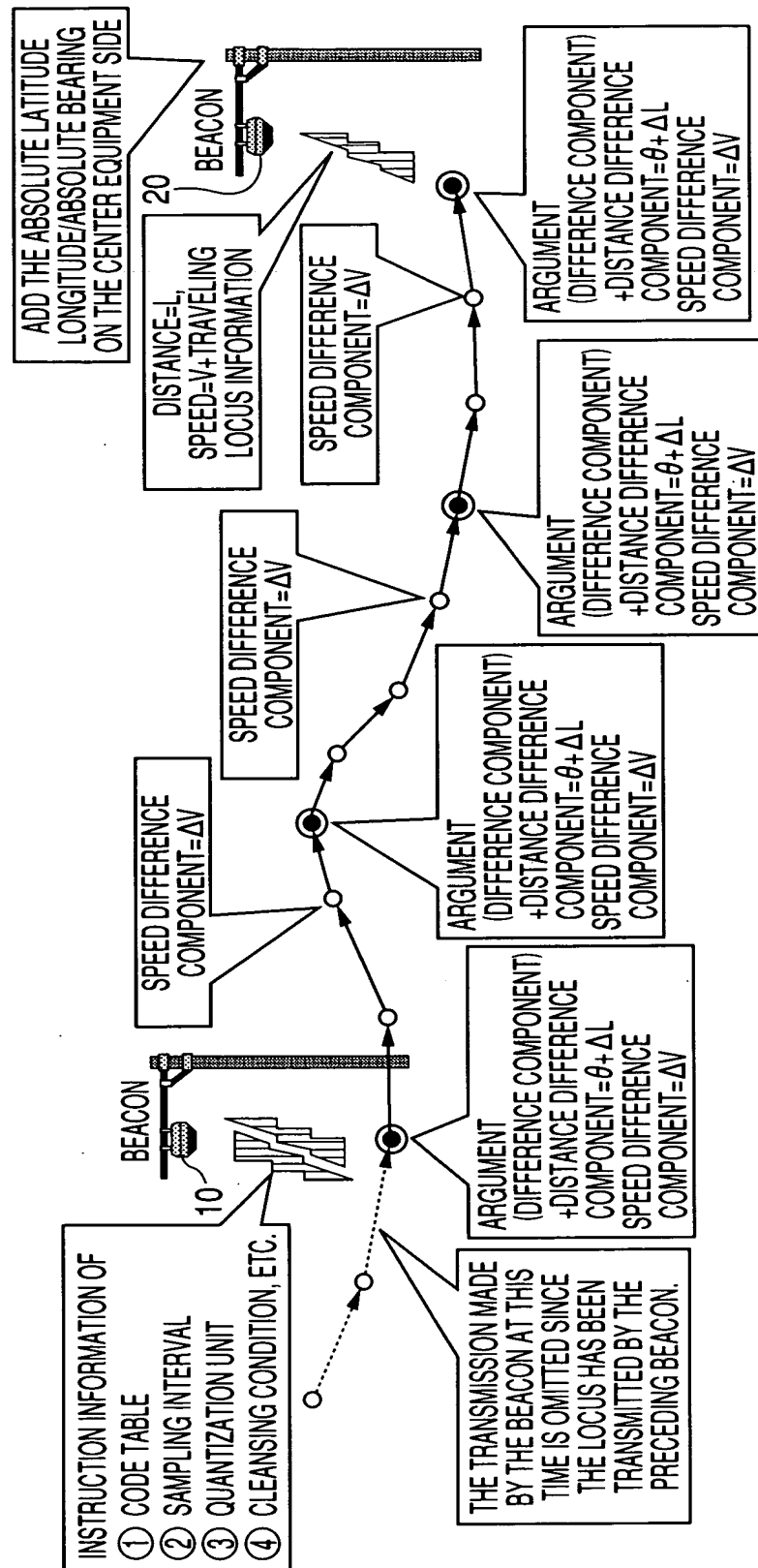


FIG. 7

BEACON→FCD TRANSMISSION DATA FORMAT EXAMPLE	
CODING SYSTEM INSTRUCTION NUMBER	
IDENTIFICATION FLAG INDICATING EITHER ARGUMENT REPRESENTATION OR ARGUMENT PREDICTION DIFFERENCE COMPONENT REPRESENTATION (=ARGUMENT REPRESENTATION)	
IDENTIFICATION FLAG INDICATING EITHER EQUAL-TIME SAMPLING OR EQUIDISTANCE SAMPLING, AND MEASURED INFORMATION INSTRUCTION (=EQUIDISTANCE SAMPLING, MEASURED INFORMATION ARE θ , V)	
SAMPLING DISTANCE INTERVAL OF POSITION INFORMATION (=200m)	
SAMPLING DISTANCE INTERVAL OF SPEED INFORMATION (=25m)	
QUANTIZATION UNIT OF THE ARGUMENT (=3°)	
QUANTIZATION UNIT OF THE SPEED INFORMATION	
CODE TABLE OF THE ARGUMENT θ	
CODE TABLE OF THE SPEED DIFFERENCE ΔV	

FIG. 8**QUANTIZATION UNIT OF SPEED INFORMATION**

QUANTIZATION UNIT	SPEED (km/h)
0	0
1	1
2	2
3	3
4	4
5	5 TO 6
6	7 TO 8
7	9 TO 10
8	11 TO 13
9	14 TO 16
10	17 TO 19
11	20 TO 24
12	25 TO 29
13	30 TO 34
14	35 TO 39
15	40 TO 44
16	45 TO 49
17	50 TO 59
18	60 TO 69
}	

FIG. 9A

CODE TABLE OF θ		
VALUE OF θ (DIFFERENCE IN QUANTIZATION UNIT)	CODE	ADDITIONAL BIT
0	0	0
RUN LENGTH 8 OF 0	11110	0
± 1	100	1 (\pm IDENTIFICATION)
± 2	101	1 (\pm IDENTIFICATION)
± 3	1100	1 (\pm IDENTIFICATION)
	.	
	.	
	.	

FIG. 9B

CODE TABLE OF ΔV		
VALUE OF θ (DIFFERENCE IN QUANTIZATION UNIT)	CODE	ADDITIONAL BIT
0	0	0
RUN LENGTH 8 OF 0	11110	0
± 1	100	1 (\pm IDENTIFICATION)
± 2	101	1 (\pm IDENTIFICATION)
± 3	1100	1 (\pm IDENTIFICATION)
	.	
	.	
	.	

FIG. 10

FCD→CENTER EQUIPMENT TRANSMISSION DATA FORMAT EXAMPLE	
VEHICLE ID INFORMATION	
CODING SYSTEM INSTRUCTION NUMBER	
NUMBER OF θ MEASURING POINTS	
CODED DATA OF THE ARGUMENT θ TO THE PRECEDING MEASURING POINT (BIT SEQUENCE OF CODED θ)	
SPEED V AT THE FINAL MEASURING POSITION	
NUMBER OF ΔV MEASURING POINTS	
CODED DATA OF THE SPEED DIFFERENCE COMPONENT FROM THE PRECEDING NODE (BIT SEQUENCE OF CODED ΔV)	

FIG. 11

CONFIGURATIVE EXAMPLE OF THE SYSTEM

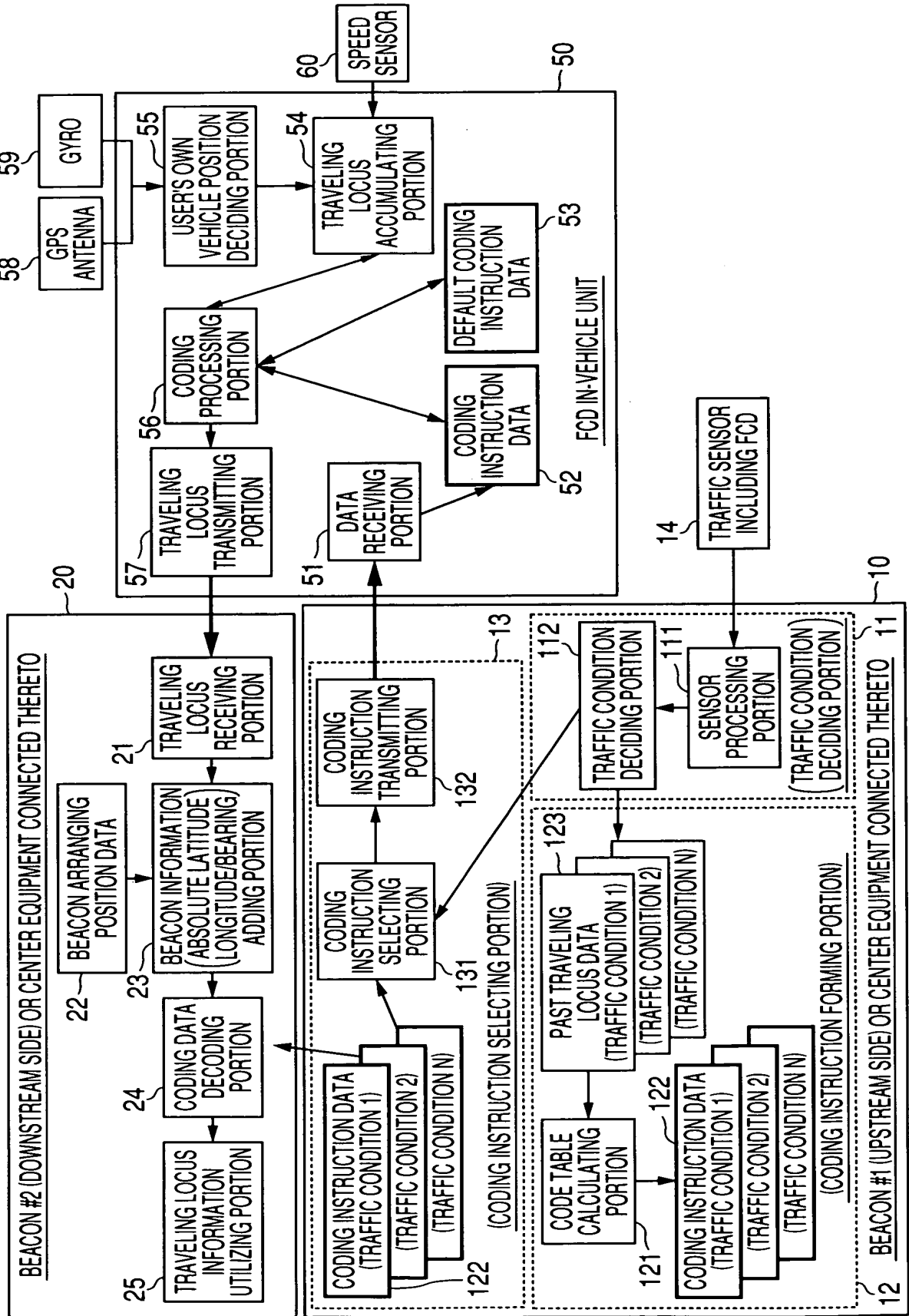


FIG. 12

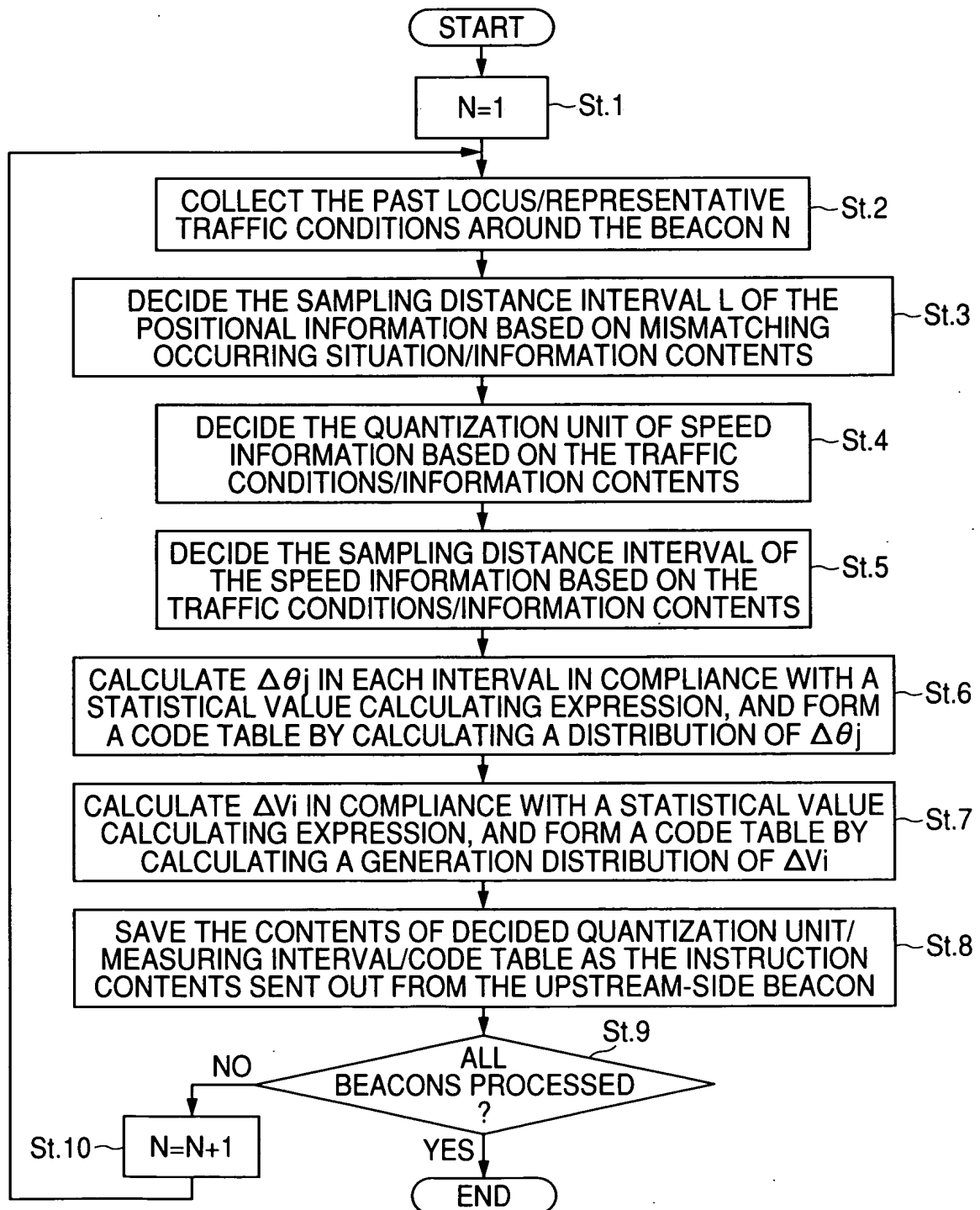


FIG. 13

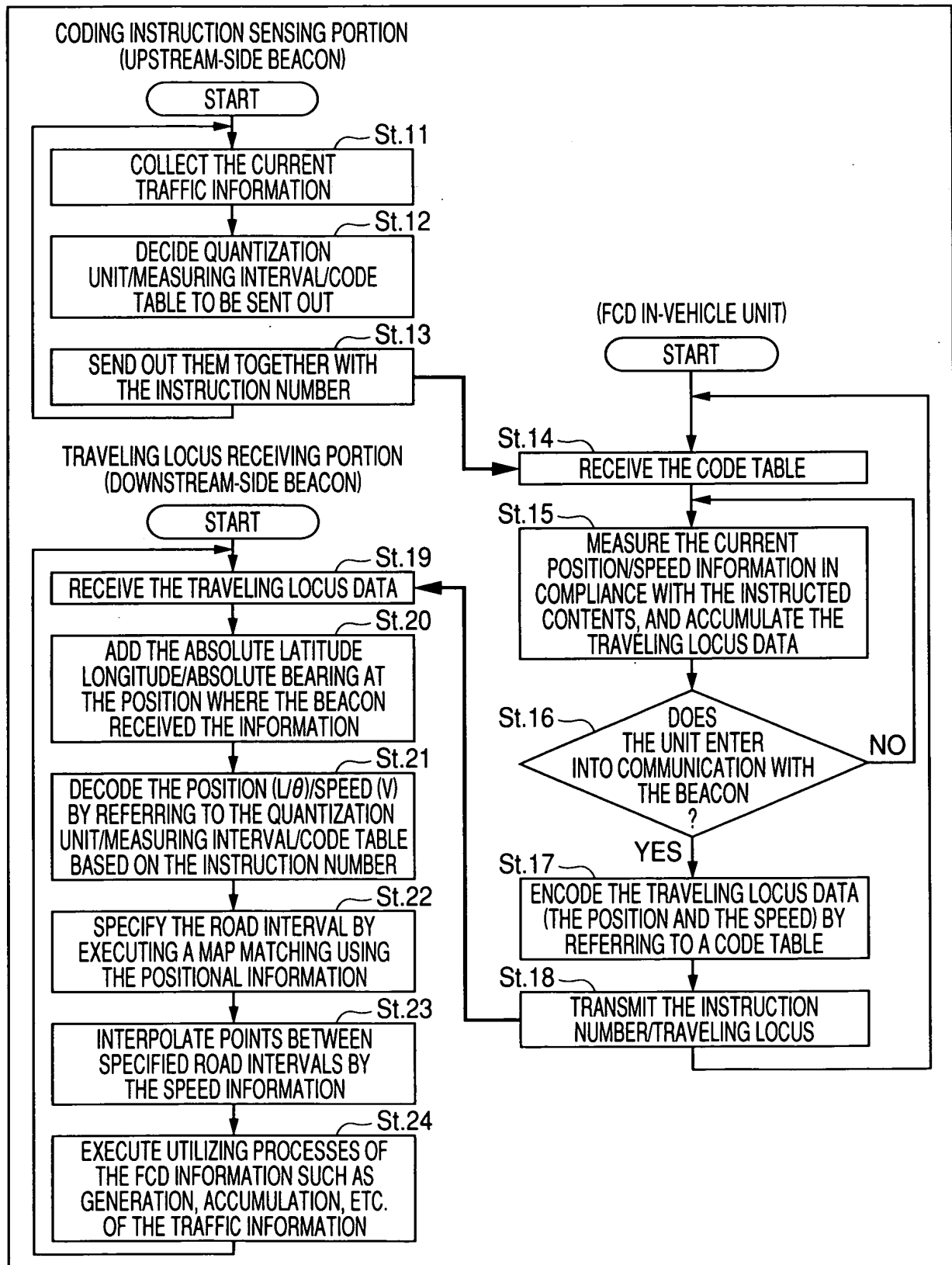


FIG. 14

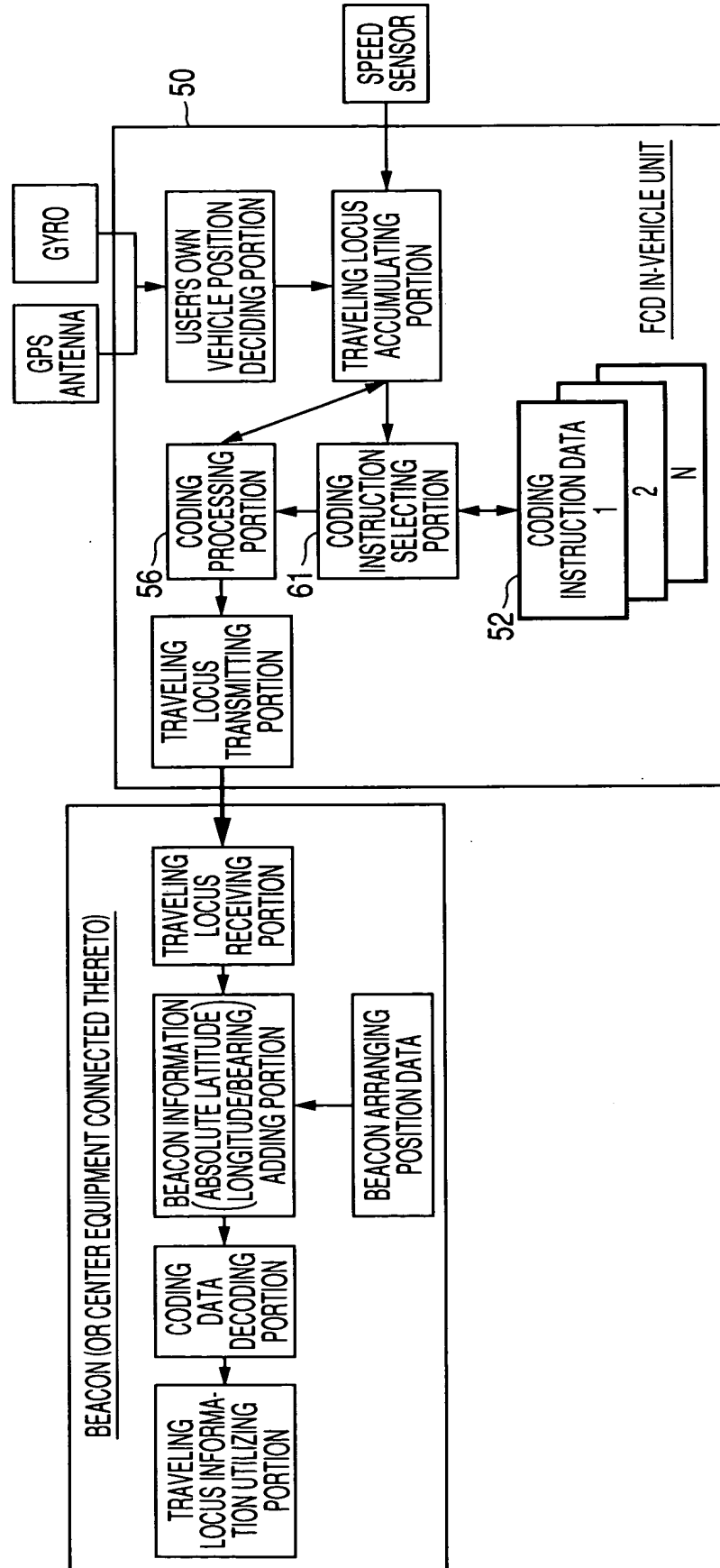


FIG. 15

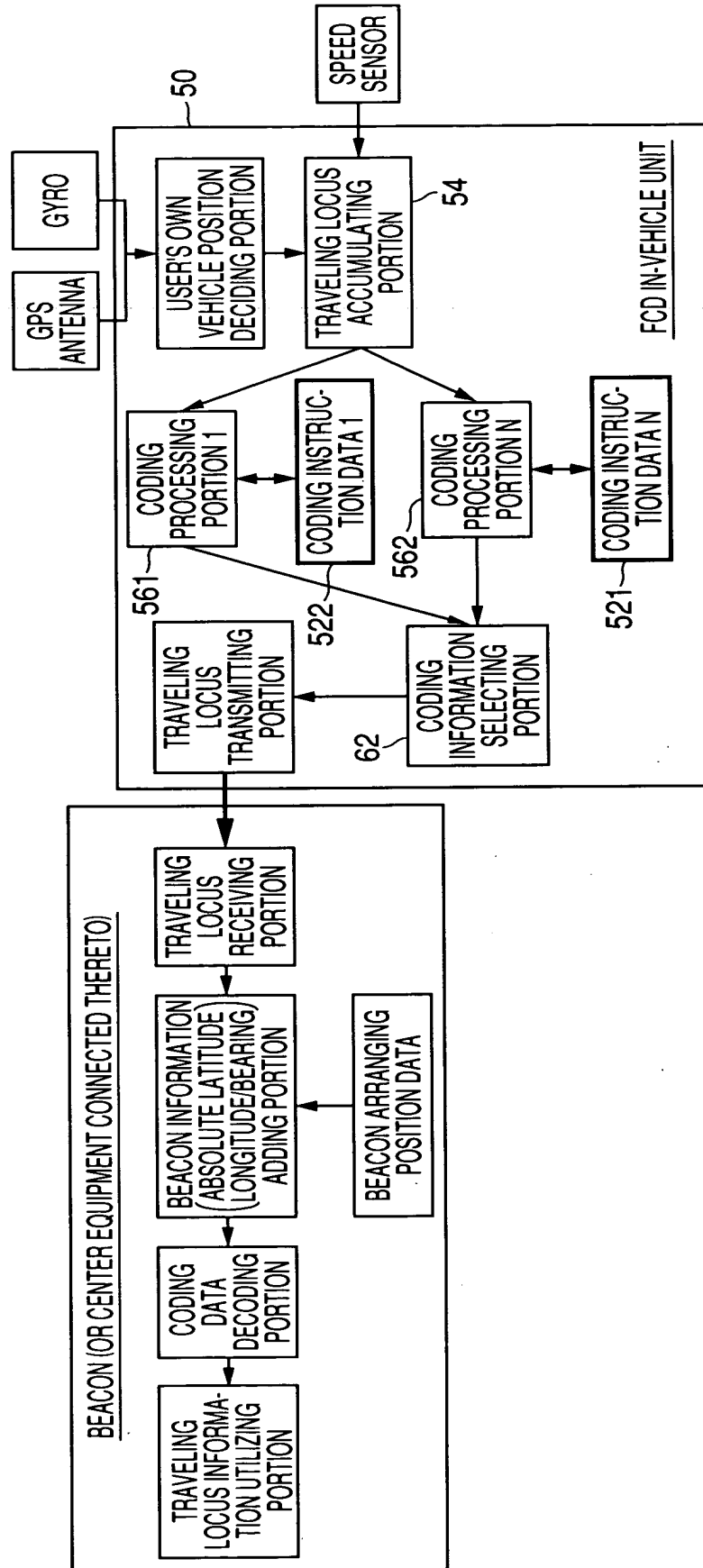


FIG. 16

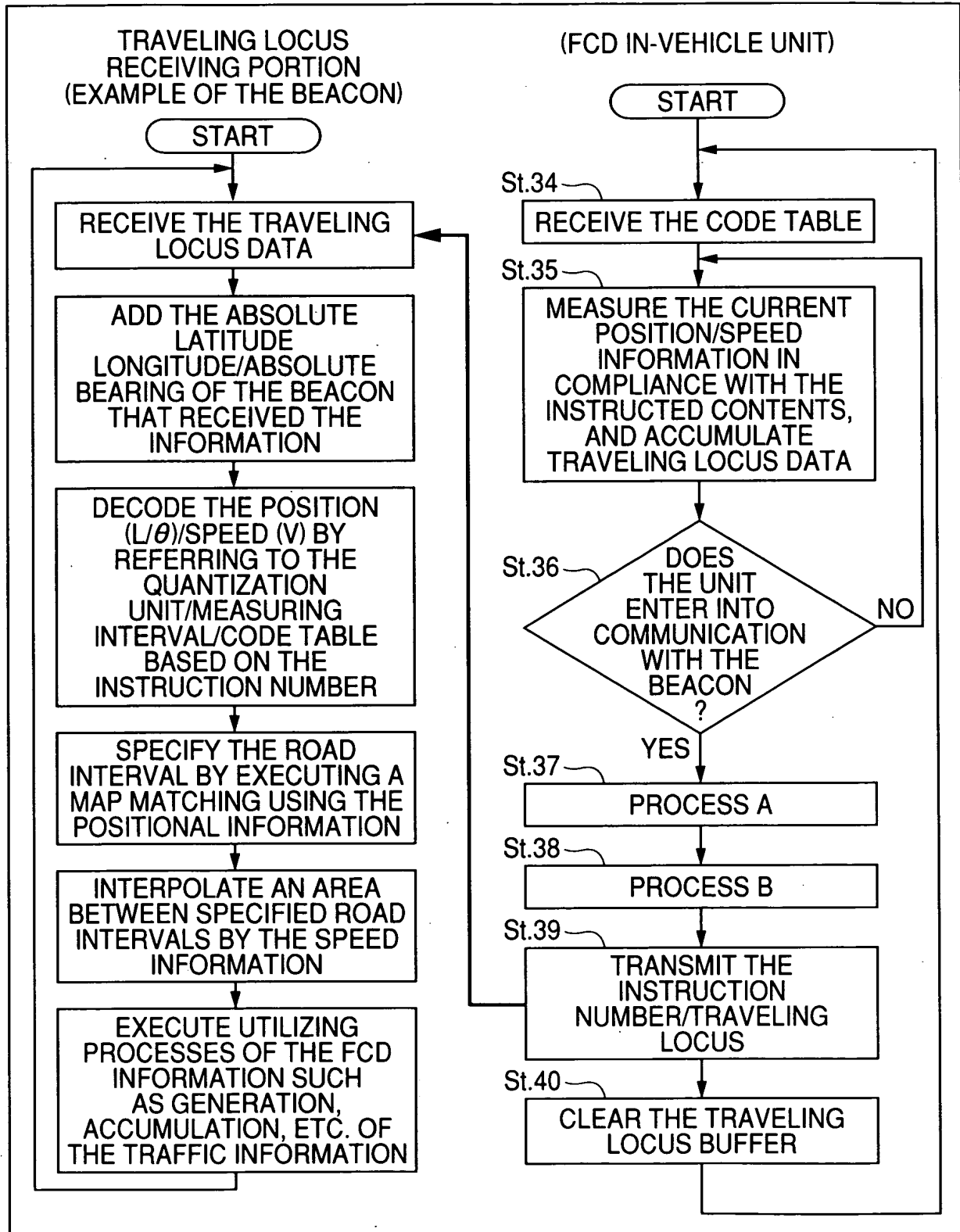


FIG. 17

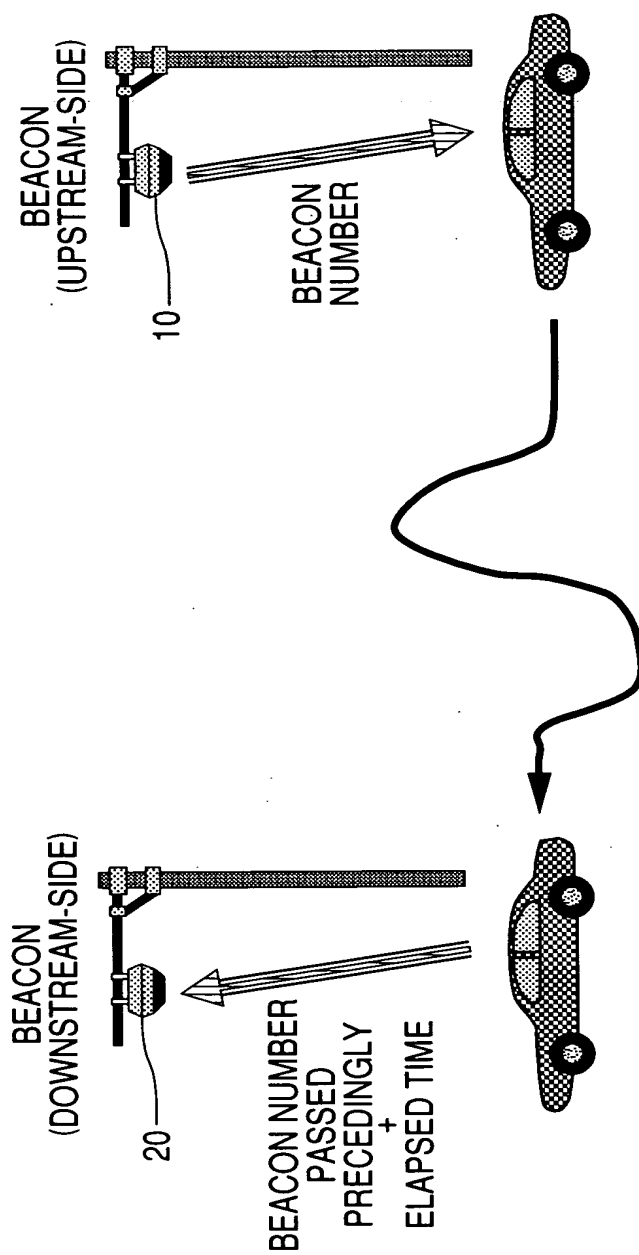


FIG. 18

